

**SECRET**

[REDACTED]  
Monthly Report

DDR-Dupe

25X1

PAR 249

31 Jan 69

SUBJECT: [REDACTED] Precision Enlarger Prototype (BPE) Operational  
Improvements and Maintenance

25X1

TASK/PROBLEM

1. Provide photographic enlarger maintenance at the customer's facility for one [REDACTED] Precision Enlarger (BPE) and three 10-20-40X Enlargers.

25X1

DISCUSSION

2. Contractor personnel visited the customer's facility during the week of 10 January 1969. The purpose of the visit was to perform the one-month preventive maintenance check on the BPE.

3. During the check, several malfunctions were found and the following maintenance was performed:

a. The lamp in the "E" condenser was changed because the "getter" that is spot welded to one of the wires was broken off inside the bulb.

b. Inspection showed that one of the ears (stops) had been broken off on one of the Lectra timer switches, permitting it to be rotated 360°. The other switch was loose internally. Both were replaced with switches from the timer from the Depot Spare Parts Kit. The whole timer was not replaced because of a difference in wiring. Wire #124 entered the timer from a terminal block on S/N 001 (the BPE Prototype), and the timer from the Depot Kit did not have this wire.

c. It had been reported that an X-coordinate non-steering roller on the machine was defective. When it was tested, however, the roller operated perfectly. It is thought that foreign matter may have entered the roller and worked its way out again. As no tape was observed on the original roller, tape was taken off of the spare roller and placed on the original.

**SECRET**

**GROUP 1**  
EXCLUDED FROM AUTOMATIC DOWNGRADING  
AND DECLASSIFICATION

**SECRET**

PAR 249

31 Jan 69

d. Defective + and - lights were replaced on the "Y" coordinate readout and a loose plug on the diode box was secured. This action corrected the problem of erratic numbers.

e. When it was observed that the wiper brushes did not operate correctly, it was determined that the bridge rectifier supplying voltage to the solenoids was defective. It is believed that one diode failed open because the solenoids were receiving about 50 volts. As no rectifiers are listed in the Flyaway Kit or the Depot Spare Parts Kit, it is planned to bring one for replacement at the PMS check that will occur next week.

f. A 2-amp fuse was placed in the power supply section of the Decitrak unit to replace the 3-amp fuse that had been temporarily installed.

4. In the report for December 1968, it was incorrectly stated, in the Planned Activity section, that monthly maintenance on the four 10-20-40X Enlargers would be performed in January 1969. As the maintenance check for 10-20-40X Enlargers is on a two-month schedule, the next PMS check will be made in February 1969.

#### PLANNED ACTIVITY

5. Contractor personnel will visit the customer's facility during the week of 3 February 1969 to perform preventive maintenance on the BPE and 10-20-40X Enlargers, and replace the bridge rectifier in the BPE.

**SECRET**

GROUP 1  
EXCLUDED FROM AUTOMATIC DOWNGRADING  
AND DECLASSIFICATION